

# LECTOTYPIFICATION OF *FUMARIA MURALIS* Sond. ex Koch (FUMARIACEAE)

by

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## ABSTRACT

Walsh, N.G. Lectotypification of *Fumaria muralis* Sond. ex Koch (Fumariaceae). *Muelleria* 7(4): 495–496 (1992). — A specimen at MEL is here selected as the lectotype of *Fumaria muralis* Sond. ex Koch, in lieu of specimens at B which have hitherto been erroneously or dubiously referred to as types.

## INTRODUCTION

While preparing an account of the Fumariaceae for the *Flora of Australia*, it was necessary to consult type material of *Fumaria muralis* Sond. ex Koch, *Syn. Fl. Germ.* ed. 2, 1017 (1845). Koch cited as type material specimen(s) collected by Sonder near Hamburg ('In muris prope Hamburgam'). M. Liden (1986) indicated that the type specimen of *Fumaria muralis* was at B where Koch's herbarium was housed prior to its destruction in 1943 (Stafleau and Cowan, 1979). Through the courtesy of the Director of B, photographs were received of the sheets from that institution which have been regarded as type material of *Fumaria muralis*. There are two sheets:

one labelled '*F. muralis* pr. (prope) Hamburg, leg. Dr Sonder, c. 1852', with an attached slip '*F. muralis* Apr. 1850'; and the other on a Herb. C. Bolle label '*Fumaria muralis* Hamburg, Horn, Juli (July)' Herb. W. Sonder.

## LECTOTYPIFICATION

The first of the above-mentioned sheets is clearly not a type as both dates on the sheet postdate the year of publication (1845). The lack of agreement between the two dated slips is likely to have arisen through mixture of specimens. The second sheet is undated. Both sheets are undoubtedly *Fumaria muralis*, both with flowers and the Herb. Bolle sheet with a few crushed fruit remnants.

The greater part of the Sonder herbarium was purchased in 1883 by the National Herbarium of Victoria (Short 1990). Amongst the unmounted *Fumaria* material at MEL was found nine sheets of material collected by Sonder in or near Hamburg, but with the exception of two of these, they, like the material at B, either postdate the publication of the name or have insufficient information to identify them as possible types. The two sheets which are dated before 1845 include a specimen dated 19 June 1842, and a sheet from the Steetz herbarium, (see Short & Sinkora, 1988 for an account of the purchase of this herbarium). Both sheets contain the only material known with certainty to have been collected by Sonder before publication of *Fumaria muralis*.

There is no indication on either of the MEL (or B) sheets that they were seen by Koch, but there seems to be no reason to doubt that, if not syntypes, the two MEL specimens are isosyntypes of the name *Fumaria muralis* Sond. ex Koch. Importantly, they appear to be the only types that are extant and a lectotype should be chosen from them. Of the two MEL specimens, the ex-Steetz herbarium sheet is superior, the other having few attached flowers or fruit (but a number of detached organs retained within a cellophane envelope). It is labelled in Sonder's hand '*Hamburg in muris*, Jul. 1844, W. Sonder' and annotated at length by Steetz.

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This specimen is superior to those photographed at B, and unlike the Bolle herbarium sheet, is dated and includes intact, mature fruit, descriptions of which are included in the protologue. Consequently, I have chosen it as the lectotype of the name *Fumaria muralis* Sond. ex Koch. I consider the remaining specimens to be possible isosyntypes (lectoparatypes or isolectoparatypes *sens.* Brummitt 1985).

***Fumaria muralis*** Sond. ex Koch, *Syn. Fl. Germ.* ed. 2, 1017 (1845). TYPE: In muris prope Hamburgam, *Sonder s.n.* LECTOTYPE (here chosen): Hamburg *in muris*, Jul. 1844, *W. Sonder* (MEL 1584466, ex herb. *O. Steetz*). POSSIBLE SYNTYPES OR ISOSYNTYPES: Hamburg, 19 June, 1842, *Sonder* (MEL 1584465); Hamburg, Horn, Juli (no year), ex herb. *W. Sonder*, ex herb. *C. Bolle* (B).

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#### REFERENCES

- Brummitt, R.K. (1985). Lectoparatypes? *Taxon* 34:501–502.  
 Koch, K. (1845). *Syn. Fl. Germ.* ed. 2, 1017. (Leipzig.)  
 Liden, M. (1986). Synopsis of Fumarioideae (Papaveraceae) with a monograph of the tribe Fumarieae. *Opera Bot.* 88.  
 Short, P.S. & Sinkora, K.M. (1988). The botanist Joachim Steetz (1804–1862). *Muelleria* 6:449–494.  
 Short, P.S. (1990). Politics and the purchase of private herbaria by the National Herbarium of Victoria; in Short (ed) 'History of systematic botany in Australasia'. (Australian Systematic Botany Society Inc., South Yarra, Victoria.)  
 Stafleau, F.A. & Cowan, R.S. (1979). Taxonomic literature. Edn 2, vol. 2: H-Le. *Regnum Veg.* 98:1–991.

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